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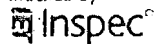|	
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1 Router plugins: a software architecture for next-generation routers   ■
    Dan Decasper, Zubin Dittia, Guru Parulkar, Bernhard Plattner
    February 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 1
    Publisher: IEEE Press
    Full text available: 🗎 pdf(530.34 KB)   Additional Information: full citation, references, citings, index terms

    Keywords: communication system routing, communication system security, internet,
    modular computer systems

2 On the impact of policing and rate guarantees in DiffServ networks: a video   ■
◈ streaming application perspective
    Wael Ashmawi, Roch Guerin, Stephen Wolf, Margaret Pinson
    August 2001 **ACM SIGCOMM Computer Communication Review , Proceedings of the
            2001 conference on Applications, technologies, architectures, and
            protocols for computer communications SIGCOMM '01**, Volume 31 Issue 4
    Publisher: ACM Press
    Full text available: 🗎 pdf(481.38 KB)   Additional Information: full citation, abstract, references, citings, index
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    Over the past few years, there have been a number of proposals aimed at introducing
    different levels of service in the Internet. One of the more recent proposals is the
    Differentiated Services (Diff-Serv) architecture, and in this paper we explore how the
    policing actions and associated rate guarantees provided by the Expedited Forwarding
    (EF) translate into perceived benefits for applications that are the presumed users of such
    enhancements. Specifically, we focus on video streaming application ...

3 The PIM architecture for wide-area multicast routing   ■
    Stephen Deering, Deborah L. Estrin, Dino Farinacci, Van Jacobson, Ching-Gung Liu, Liming
    Wei
    April 1996 **IEEE/ACM Transactions on Networking (TON)**, Volume 4 Issue 2
    Publisher: IEEE Press
    Full text available: 🗎 pdf(1.09 MB)   Additional Information: full citation, references, citings, index terms,
                                                                        review

4 Bibliography of recent publication in computer networking

July 1989 **ACM SIGCOMM Computer Communication Review**, Volume 19 Issue 3

Publisher: ACM Press

Full text available: pdf(2.53 MB)   Additional Information: full citation, index terms

5 Protocol architecture for multimedia applications over ATM networks

Dilip D. Kandlur, Debanjan Saha, M. Willebeek-LeMair

July 1995 **ACM SIGCOMM Computer Communication Review**, Volume 25 Issue 3

Publisher: ACM Press

Full text available: pdf(666.45 KB)   Additional Information: full citation, abstract, index terms

At the data-link layer, ATM offers a number of features, such as high-bandwidth and per-connection quality of service (QoS) guarantees, making it particularly attractive to multimedia applications. Unfortunately, many of these features are not visible to applications because of the inadequacies of existing higher-level protocol architectures. Although a considerable effort is underway to tune these protocols for ATM networks, we believe that a new ATM specific protocol stack is essential to effe ...

6 Contents of the Computer Communication Review 1970–1994

David Oran

January 1995 **ACM SIGCOMM Computer Communication Review**, Volume 25 Issue 1

Publisher: ACM Press

Full text available: pdf(1.75 MB)   Additional Information: full citation, index terms

7 A highly available scalable ITV system

M. N. Nelson, M. Linton, S. Owicki

December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles SOSP '95**, Volume 29 Issue 5

Publisher: ACM Press

Full text available: pdf(1.64 MB)   Additional Information: full citation, references, citings, index terms

8 Software architecture of DiCE: a distributed collaboration environment

Mon-Song Chen, Tsipora Barzilai, Harrick M. Vin

July 1992 **ACM SIGCOMM Computer Communication Review**, Volume 22 Issue 3

Publisher: ACM Press

Full text available: pdf(190.97 KB)   Additional Information: full citation, abstract, citings, index terms

Recent advances in network technology has significantly increased the network bandwidth as well as enriched the set of network functions, enabling a rich set of computer assisted collaborations. *DiCE (Distributed Collaborative Environment)* is a multimedia collaboration environment that is being developed at the IBM T. J. Watson Research Center. The challenge of DiCE is to explore the advanced functionalities enabled by high speed networking and multimedia computing technolog ...

9 Introducing quality-of-service and traffic classes into wireless mobile networks

Jarkko Sevanto, Mika Liljeberg, Kimmo Raatikainen

October 1998 **Proceedings of the 1st ACM international workshop on Wireless mobile**

multimedia WOWMOM '98
Publisher: ACM Press
Full text available: pdf(914.23 KB)   Additional Information: full citation, references, index terms

Keywords: quality-of-service, traffic scheduling, wireless access

10 Dynamic power management of electronic systems
Luca Benini, Alessandro Bogliolo, Giovanni De Micheli
November 1998 **Proceedings of the 1998 IEEE/ACM international conference on**
Computer-aided design ICCAD '98
Publisher: ACM Press
Full text available: pdf(1.19 MB)   Additional Information: full citation, references, citings, index terms

11 Fbufs: a high-bandwidth cross-domain transfer facility
Peter Druschel, Larry L. Peterson
December 1993 **ACM SIGOPS Operating Systems Review , Proceedings of the**
fourteenth ACM symposium on Operating systems principles SOSP
'93, Volume 27 Issue 5
Publisher: ACM Press
Full text available: pdf(1.35 MB)   Additional Information: full citation, abstract, references, citings, index terms

We have designed and implemented a new operating system facility for I/O buffer
management and data transferacross protection domain boundaries on shared memory
machines. This facility, called *fast buffers* (fbufs), combines virtual page remapping with
shared virtual memory, and exploits locality in I/O traffic to achieve high throughput
without compromising protection, security, or modularity. goal is to help deliver the high
bandwidth afforded by emerging high-speed networks to user-leve ...

12 Work in progress papers: GlobalCom: a unified messaging system using
synchronous and asynchronous forms
Declan Barber
June 2002 **Proceedings of the inaugural conference on the Principles and Practice of**
programming, 2002 and Proceedings of the second workshop on
Intermediate representation engineering for virtual machines, 2002 PPPJ
'02/IRE '02
Publisher: National University of Ireland
Full text available: pdf(332.19 KB)   Additional Information: full citation, abstract, index terms

GlobalCom is an applied project that aims to provide an internet-based unified messaging
system. for the global enterprise. The need for GlobalCom arose from the requirements
concerned with the development of groupware to enable a globally distributed set of users
to manage a crisis. GlobalCom's core functionality includes the ability to communicate in
real-time, or asynchronously, using communications means such as Chatrooms,
Noticeboards, SMS messaging, Email, Telephony and Voicemail and to av ...

13 Synchronization of distributed multimedia data in an application-specific manner
N. Agarwal, S. Son
October 1994 **Proceedings of the second ACM international conference on Multimedia**
MULTIMEDIA '94
Publisher: ACM Press
Full text available: Additional Information: full citation, abstract, references, citings, index

🔁 pdf(766.81 KB)   terms

One of the distinctive features of multimedia systems is the wide range of applications
they intend to cover, stretching the gamut from entertainment to life-critical applications
such as real-time remote surgery. In the face of such a wide spectrum of applications,
protocols used to deal with various issues in multimedia systems should be adaptable to
the application. Synchronization is one of the key characteristics of a multimedia system.
In this paper, we propose a mechanism for synchro ...

14 Scheduling and IPC mechanisms for continuous media   ▬
Ramesh Govindan, David P. Anderson
September 1991 **ACM SIGOPS Operating Systems Review , Proceedings of the
thirteenth ACM symposium on Operating systems principles SOSP
'91**, Volume 25 Issue 5
Publisher: ACM Press

Full text available: 🔁 pdf(1.23 MB)   Additional Information: full citation, abstract, references, citings, index
                                                          terms

Next-generation workstations will have hardware support for digital "continuous
media" (CM) such as audio and video. CM applications handle data at high rates, with
strict timing requirements, and often in small "chunks". If such applications are to run
efficiently and predictably as user-level programs, an operating system must provide
scheduling and IPC mechanisms that reflect these needs. We propose two such
mechanisms: *split-level CPU scheduling* of lightweight processes in multiple ad ...

15 The personal electronic program guide—towards the pre-selection of individual TV   ▬
programs
Michael Ehrmantraut, Theo Härder, Hartmut Wittig, Ralf Steinmetz
November 1996 **Proceedings of the fifth international conference on Information and
knowledge management CIKM '96**
Publisher: ACM Press
Full text available: 🔁 pdf(923.87 KB)   Additional Information: full citation, references, index terms

16 The DOWL distributed object-oriented language   ▬
Bruno Achauer
September 1993 **Communications of the ACM**, Volume 36 Issue 9
Publisher: ACM Press
Full text available: 🔁 pdf(2.55 MB)   Additional Information: full citation, references, citings, index terms

**Keywords**: concurrency, concurrent object-oriented programming

17 Dialogue helpsystem based on flexible matching of user query with natural language   ▬
knowledge base
Sadao Kurohashi, Wataru Higasa
October 2000 **Proceedings of the 1st SIGdial workshop on Discourse and dialogue -
Volume 10**
Publisher: Association for Computational Linguistics
Full text available: 🔁 pdf(940.55 KB)   Additional Information: full citation, abstract, references, citings

This paper describes a dialog help-system which advises users in using computer facilities
and software applications provided by the Center for Information and Multimedia Studies,
Kyoto University. The system employs a knowledge base written in natural language and

retrieves a proper knowledge unit by flexible matching of user query with the knowledge base. The system is running since July 1999, received about 2,000 queries for the first seven months, and answered about 40% of them satisfactory.

18 A knowledge-based message management system

Shi-Huo Chang, L. Leung
July 1987 **ACM Transactions on Information Systems (TOIS)**, Volume 5 Issue 3

Publisher: ACM Press

Full text available: pdf(1.46 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

The design approach of a knowledge-based message management system is described. A linguistic message filter is used to filter out junk messages. Relevant messages are then processed by an expert system, driven by user-defined alerter rules. An alerter rule base for a secretarial office is illustrated. Further research topics in knowledge-base design, evaluation, and learning are also discussed.

19 Perspectives on database theory

Mihalis Yannakakis
September 1996 **ACM SIGACT News**, Volume 27 Issue 3

Publisher: ACM Press

Full text available: pdf(2.13 MB)   Additional Information: full citation, index terms

20 DEVise (demo abstract): integrated querying and visual exploration of large datasets

M. Livny, R. Ramakrishnan, K. Beyer, G. Chen, D. Donjerkovic, S. Lawande, J. Myllymaki, K. Wenger
June 1997 **ACM SIGMOD Record , Proceedings of the 1997 ACM SIGMOD international conference on Management of data SIGMOD '97**, Volume 26 Issue 2

Publisher: ACM Press

Full text available: pdf(670.22 KB)   Additional Information: full citation, abstract, references, citings, index terms

DEVise is a data exploration system that allows users to easily develop, browse, and share visual presentations of large tabular datasets (possibly containing or referencing multimedia objects) from several sources. The DEVise framework, implemented in a tool that has been already successfully applied to a variety of real applications by a number of user groups, makes several contributions. In particular, it combines support for extended relational queries with powerful data visualization f ...

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